

**In the Claims:**

This listing of claims will replace all prior versions, and listing, of claims in the application:

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1. (Currently amended) A reflective imaging encoder comprising:

a substrate,

an emitter mounted on the substrate emitting light,

a diffuse reflective coder reflecting light from the emitter,

10 an imaging lens forming an inverted imaging of the reflected light from the coder, ~~and~~

a an image detector mounted on the substrate receiving the inverted image from the imaging lens, and

a baffle between the emitter and the image detector.

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2. (Currently amended) The reflective imaging encoder of Claim 1 where the ~~encoder is a code wheel~~ image detector is a photodiode array.

3. (Currently amended) The reflective imaging encoder of Claim 1 where the ~~encoder is a code strip~~ image detector is a CMOS imaging sensor.

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4. (Original) The reflective imaging encoder of Claim 1 where the emitter is a light emitting diode.

5. (Original) The reflective imaging encoder of Claim 4 where the light emitting diode is an unencapsulated light emitting diode chip.

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6. (Original) The reflective imaging encoder of Claim 4 where the light emitting diode is encapsulated.

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7. (Original) The reflective imaging encoder of Claim 4 where the emitter is a packaged light emitting diode.

8. (Original) The reflective imaging encoder of Claim 6 where the encapsulation forms an optical axis.

5 9. (Original) The reflective imaging encoder of Claim 8 where the light emitting diode is mounted on the optical axis.

10. (Original) The reflective imaging encoder of Claim 8 where the light emitting diode is mounted offset from the optical axis.

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11. (Original) The reflective imaging encoder of Claim 6 where the light emitting diode includes a reflector cup.

12. (Original) The reflective imaging encoder of Claim 11 where the encapsulation  
15 forms an optical axis.

13. (Original) The reflective imaging encoder of Claim 12 where the light emitting diode is mounted on the optical axis.

20 14. (Original) The reflective imaging encoder of Claim 12 where the light emitting diode is mounted offset from the optical axis.

15. (Original) The reflective imaging encoder of Claim 4 where the emitter is a plurality of light emitting diodes.

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16. (Original) The reflective imaging encoder of Claim 1 where the imaging lens is separate from the detector.

17. (Original) The reflective imaging encoder of Claim 1 where the imaging lens is  
30 incorporated into the encapsulation of the detector.

18. (Original) The reflective imaging encoder of Claim 1 further including an aperture between the coder and the imaging lens.

19. (Original) The reflective imaging encoder of Claim 1 further including an aperture between the imaging lens and the detector.

20. (Original) The reflective imaging encoder of Claim 1 further including a first  
5 aperture between the coder and the imaging lens and a second aperture between the imaging lens and the detector.

21. (canceled)

10 22. (canceled)

23. (canceled)

24. (canceled)

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25. (canceled)

26. (Original) The reflective imaging encoder of Claim 1 where the detector is mounted on the optical axis of the imaging lens.

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27. (canceled)